



431 River Road
Bow, NH 03304

August 13, 2020

Submitted on-line via NetDMR

U.S. Environmental Protection Agency
Water Technical Unit (SMR-04)
OES4 – SMR
5 Post Office Square - Suite 100
Boston, MA 02109-3912

Reference: NPDES Permit No. NH0001465, Merrimack Station, GSP Merrimack LLC,
issued June 25, 1992, modified October 22, 1992, modified January 10, 2018.

Dear Sir/Madam:

Merrimack Station
Monthly NPDES Discharge Monitoring Report
July 2020

In compliance with Part I, Section B.1., of the NPDES permit (see Reference), Granite Shore Power LLC (GSP) herein submits the monthly NPDES report for Merrimack Station for the month of July. With the following exception, all sampling and analyses were conducted by station personnel in accordance with EPA approved procedures referenced at 40 CFR Part 136; Eastern Analytical, Inc. of Concord, NH, performed the total suspended solids and oil and grease analyses on the samples collected at Outfall 003A. There were no oily sheens, floating solids, or foam observed in any of the outfall discharges in other than trace amounts.

As instructed by the agencies, GSP now reports a concentration of zero ("0") when the analytical result is less than the method detection limit (MDL). For this report, the following MDLs were used: Total Residual Oxidants = 0.05 mg/l (SM 4500-Cl E-2011); Oil & Grease = 5.0 mg/l (EPA 1664 Rev. B).

The pH at Outfall 003 (Station S-0) dipped below 6.5 SU during most days this month. With no unit operations, the lack of cooling water flow from the station aggravated in-situ monitoring by creating stagnant conditions and allowing large beds of floating vegetation to encroach upon the equipment. Compliance was maintained with the permit however, as the effluent pH closely tracked the naturally occurring river pH at Station N-5 (see the attached data sheets), and any discrepancies were within the analytical limits of the equipment accuracy and precision. As such, these low pH values were not the result of activities at Merrimack Station and so should not be recorded as violations in the Integrated Compliance Information System, Enforcement and Compliance History Online, or any other EPA compliance database.

August 13, 2020

This report is required by, and prepared specifically for, the U.S. Environmental Protection Agency (EPA). It presents truly, accurately and completely, the observed measurements and analyses required by the EPA to be performed or submitted, but only such observed results. It is not intended as an assertion of the accuracy of any instrument, reading, or analytical result, nor is it an endorsement of the suitability of any analytical or measurement procedure.

If you have any questions regarding this report, please call Allan Palmer, Senior Engineer, at (603) 230-7951.

Sincerely,

GRANITE SHORE POWER

A handwritten signature in black ink, reading "Elizabeth H. Tillotson". The signature is written in a cursive style with a large, stylized "E" and "T".

Elizabeth H. Tillotson

Executive Director of Administration & Regulatory Affairs

Enclosures

GSP MERRIMACK LLC
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR July 2020

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
07/01/20	6.86	1600	6.80	6.75	0945	92
07/02/20	6.85	1000	6.80	6.78	0200	95
07/03/20	6.81	0015	6.77	6.74	1130	95
07/04/20	6.79	1515	6.77	6.74	0215	95
07/05/20	6.83	2115	6.78	6.74	0415	95
07/06/20	6.83	1430	6.80	6.77	0300	94
07/07/20	6.87	1545	6.81	6.76	0745	96
07/08/20	6.84	1545	6.80	6.76	0830	96
07/09/20	6.86	1900	6.79	6.74	1200	94
07/10/20	6.87	1815	6.81	6.76	0415	96
07/11/20	6.84	0015	6.81	6.78	0000	94
07/12/20	6.82	1715	6.78	6.75	0600	95
07/13/20	6.85	1415	6.80	6.76	0600	95
07/14/20	6.87	1545	6.80	6.73	0700	92
07/15/20	6.85	1800	6.81	6.75	0600	96
07/16/20	6.83	0300	6.72	6.61	0745	96
07/17/20	6.65	0015	6.62	6.59	0630	96
07/18/20	6.65	1945	6.62	6.58	1015	96
07/19/20	6.63	1815	6.60	6.56	1100	96
07/20/20	6.69	1900	6.60	6.55	0900	96
07/21/20	6.68	1800	6.60	6.55	0915	96
07/22/20	6.71	1045	6.60	6.54	1330	95
07/23/20	6.63	1330	6.59	6.56	2100	96
07/24/20	6.67	1800	6.61	6.54	0545	96
07/25/20	6.69	2245	6.62	6.57	0615	96
07/26/20	6.78	1845	6.68	6.60	0815	96
07/27/20	6.78	2030	6.70	6.63	0700	96
07/28/20	6.80	2045	6.71	6.61	0845	96
07/29/20	6.82	1800	6.72	6.65	0430	96
07/30/20	6.79	1715	6.72	6.64	0345	96
07/31/20	6.90	1815	6.79	6.68	0730	96
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AVERAGE	6.79		6.72	6.67		
STD DEV.:	0.08		0.08	0.09		

GSP MERRIMACK LLC
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM
MONTHLY SUMMARY REPORT FOR July 2020

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
07/01/20	6.78	1515	6.63	6.39	0530	92
07/02/20	7.44	1700	6.65	6.48	0430	86
07/03/20	6.87	1830	6.69	6.53	0000	95
07/04/20	6.87	1830	6.53	6.37	0615	95
07/05/20	6.87	1845	6.56	6.35	0545	95
07/06/20	6.79	1815	6.59	6.36	0700	94
07/07/20	6.95	1800	6.67	6.42	0730	96
07/08/20	6.84	1730	6.67	6.51	0745	96
07/09/20	7.15	1800	6.68	6.43	0645	94
07/10/20	7.06	1600	6.77	6.56	0615	96
07/11/20	6.86	1800	6.68	6.50	0745	94
07/12/20	7.01	1600	6.69	6.46	0515	95
07/13/20	6.78	0745	6.54	6.29	0715	95
07/14/20	6.87	1445	6.49	6.30	0415	92
07/15/20	6.78	1830	6.51	6.29	0815	96
07/16/20	6.71	0745	6.41	6.30	1145	96
07/17/20	6.54	1830	6.31	6.17	0530	96
07/18/20	6.53	2300	6.40	6.27	0730	96
07/19/20	6.73	1930	6.58	6.45	0845	96
07/20/20	6.89	1530	6.63	6.39	0715	96
07/21/20	6.86	1800	6.68	6.48	0645	96
07/22/20	6.76	1645	6.57	6.38	2230	95
07/23/20	6.63	1145	6.38	6.17	0645	96
07/24/20	6.75	1800	6.44	6.18	0430	96
07/25/20	6.81	1745	6.55	6.37	0900	96
07/26/20	6.93	1700	6.70	6.49	0700	96
07/27/20	6.98	1545	6.73	6.54	1245	96
07/28/20	6.91	1800	6.64	6.31	0145	96
07/29/20	6.89	1600	6.55	6.22	0745	96
07/30/20	6.90	1900	6.58	6.26	0530	96
07/31/20	6.99	1700	6.65	6.38	0500	96
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AVERAGE	6.86		6.59	6.37		
STD DEV.:	0.17		0.11	0.11		